Omnitech/2000

The first 5th generation laser-typesetter

Omnitech

2000

This is the first of the fifth generation typesetters, remarkable because it combines multiple advanced technologies: laser imaging, digital fonts and high quality dry output.

The result is an entirely new range of operating features and benefits for commercial, in-plant and office operations.

Versatile

With Omnitech/2000, there are 246 different type sizes, 20 different type faces and infinite variations on line simultaneously.

Omnitech/2000 handles not only the traditional galleys, it can also handle entire page makeups.

It has virtually unlimited ruling capabilities, both vertically and horizontally, which finally makes it easy to set forms — without expensive pasteup and drafting time.

Type can be expanded and condensed from 50 to 300 percent—which eliminates a great deal of expensive camerawork.

Omnitech/2000 finally makes available true display-size type, sizes from 4½ up to 127½ points, which opens up a whole new range of typesetting that previous generation machines couldn't handle.

As for output, this is the first dry output system with excellent quality at outstandingly low cost. Compared with wet output, costs for paper alone can be cut by 50 percent in an average operation.

Economical

All told, Omnitech/2000 generates a range of operating capabilities and economies that previous generations can't possibly duplicate.

This is the kind of development you could have expected from Mergenthaler Linotype. After all, we invented machine typesetting in the first place with our Linotype in 1886.

Now, we're first with fifth generation typesetting.

For more information, call (516) 673-4197 or write to Mergenthaler Linotype Company, 201 Old Country Rd., Melville, N.Y. 11747.

Mergenthaler Linotype

Omnitech/2000 Specifications

DISPLAY

Screen Size
15 inch diagonal

Screen Capacity
24 lines (including the control lines) of up to 80 characters

Display Format
Single column, 19 lines of 80 characters

Character Set
256 characters and symbols not user programmable

Character Size
Approximately 14 pt. constructed on an 8 x 12 dot matrix

File Index
Displays up to 845 files per diskette

Display Memory
1,520 displayable characters (19 lines by 80 characters)
7,760 characters for total scrolling area

Typesetting Parameters
Displayed in text

CONTROL AND EDITING FUNCTIONS

Cursor
Left, right, up, down, home, line, text, next word, previous word, foreground and background

Edit Blocks
Mark start, mark end, character, word, line, mark edit blocks to be deleted, moved, stored

Delete
Single keystroke deletes the edit block

Modes
Insert or overwrite

Move
Any defined copy moved by single key-stroke to new location defined by cursor

Local Search (Find)
Automatic search within buffer memory for a string of up to 20 characters that match the string in the control line

Background Search
Same as Find except search can be done by file, groups of files or globally through a complete diskette

Search and Replace
40 character search/replace string e.g. search 10 characters, replace 30 characters; search 20 characters, replace 20 characters.

Scrolling
Through buffer forward and backward, also paging throughout disk

Store and Recall
Any data or key functions may be stored in any of 36 key memory areas, maximum 74 codes per area. Set of key assignments can be stored on diskette and recalled by file name

JUSTIFICATION/HYPHENATION

Justification
Automatic

Logic Hyphenation
Loads automatically with rest of program. Allows discretionary hyphenation

Exception Word Dictionary
2,000 character dictionary of correctly hyphenated words. Dictionaries can be stored on diskette and recalled by file name.

INPUT/OUTPUT

Input
Keyboard or floppy diskette. Each diskette stores 600,000 characters, up to 845 files

Output
Line length 51 or optional 66 pica measure

Maximum Typesetting Speed
35 square inches per minute or 17 inch by 11 inch area in 5.35 minutes regardless of point size or leading

Point Sizes
246 sizes, 4½ to 127½ points in ½ point increments

Font Master Capacity
Up to 20 different fonts are stored on one 8 inch dual density floppy diskette. There is an average of 121 characters per font

Number of Required Digitizations
One master digitization produces all sizes plus expanded, condensed and slanted effects

Expanding/Condensing
Expanded and condensed versions of all fonts are produced by changing set width independently of point size

Slanting
Digitized fonts can be slanted ±7° or ±12°

Resolution
723 scan lines per inch, vertical or horizontal

Baseline Jump
By input command, baseline can be moved any amount in tenth-point increments

Right/Wrong Reading
Right or wrong reading output selected by switch

Reverse Leading
All electronic under software control without mechanical movement

Paging
Multi-column setting using vertical justification with running heads and footings. Maximum of 32 user definable page areas.

Tabulation
Visible tabs on screen and typesetting tabs

Reverse Video
Yes, i.e., white on black

Rules
Yes, horizontal and vertical in tenth-point increments

Simultaneous Input/Output
Input and edit one job, justification of another and typeset a different job, all concurrently. Diskettes are perfect in an office environment. They are stored like file folders. The problems of labelling and storing rolls of paper tape are completely eliminated. A single dual density 8 inch diskette stores 600,000 keystrokes, which is approximately 1 mile of paper tape.

Microprocessor
Intel 8080 and Zilog Z80

Optional
64K RAM (font memory), 66 pica measure

MISCELLANEOUS

Size/Weight
Keyboard: 49¾ inches wide x 23⅝ inches deep x 29⅝ inches high
Weight: 325 lbs.

Monitor, CRT
(Mounts on keyboard console)
14½ inches wide x 14⅜ inches deep x 48⅜ inches high
Weight: 30 lbs.

Total weight both units: 355 lbs.

Typesetter
29½ inches wide x 30¼ inches deep x 48¾ inches high
Weight: 420 lbs.

Electrical
120 VAC, 12 Amps, 60 Hz, 220 VAC, 6 Amps, 50 Hz

Environmental
Temperature: 50° to 85°F (16° to 29.4°C)
Relative Humidity: 20 to 80%
BTU's per hour: 4896

Diagnostics
Self test program for recorder

Mergenthaler Linotype

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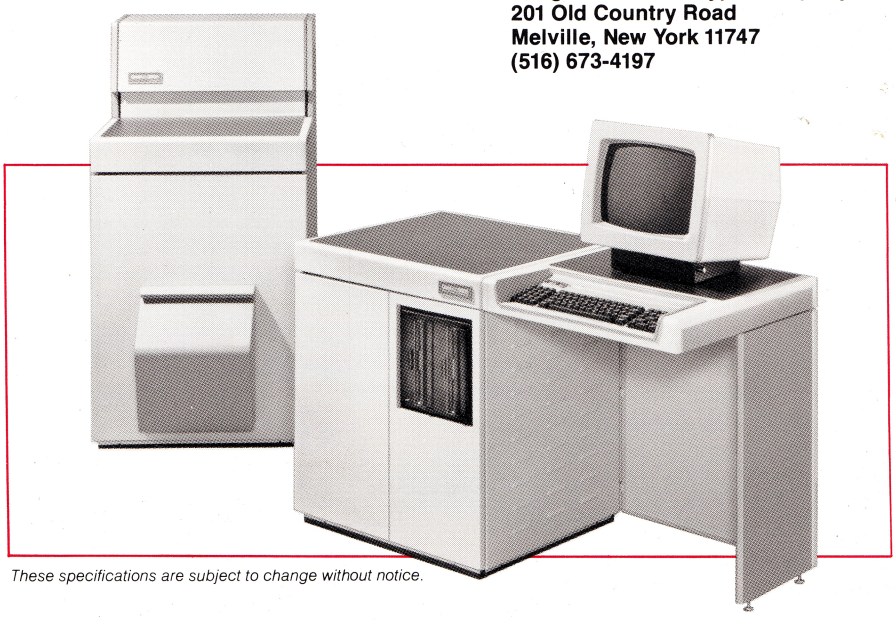
201 Old Country Road
Melville, New York 11747
(516) 673-4197



These specifications are subject to change without notice.

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